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CENTRAL INTELLIGENCE AGENCY  
**INFORMATION REPORT**

25X1

REPORT

CD NO.

COUNTRY East Germany

DATE DISTR. 9 March 1953

SUBJECT Development of Cylinder Lenses for Schlieren Devices

NO. OF PAGES 1

PLACE ACQUIRED

NO. OF ENCLS.

DATE OF INFO.

SUPPLEMENT TO REPORT NO.

25X1

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1. In December 1952, VEB Carl Zeiss, Jena, accepted an order from the Berliner Technisches Bureau (BTB) of SAG Transmasch to deliver four special cylinder lenses which are to be used in conjunction with Schlieren devices. These lenses are to allow the exact study and photographing of air currents in a glass cylinder. The lenses are made from cylinder-shaped glass which has a partial concave surface so that the lens can be attached to the glass cylinder in which air currents are generated. Two lenses are needed for each Schlieren. The lenses are attached to the cylinder between the two objective lenses of the Schlieren device; as a result about one third of the interior of the cylinder that is made visible can be seen clearly and without distortion. The lenses are slightly larger in size than the Schlieren objective lenses.
2. Originally, Zeiss planned to make the lenses from synthetic material; the plan, however, was abandoned because the material contained impurities. The lenses must be made from high quality glass that is entirely free of striations and blisters. Because of difficulties in procuring and handling the glass, Zeiss has had to make the delivery date September 1953.

25 YEAR RE-REVIEW

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